

● IDU lineup

Series	Type	Fan motor	Model	Capacity range(x100w)																										
				18	22	25	28	32	36	40	45	50	56	63	71	80	90	100	112	125	140	160	220	280	450	560				
 360° Q8 cassette	Cooling &Heating	DC	TMV-V(**) Q8/NIDY(E)				●		●		●	●	●	●	●	●	●	●	●	●										
 compact cassette	Cooling &Heating	DC	TMV-V(**) Q4R/NIDY (E)	●	●	●	●	●	●	●	●	●	●																	
 Slim duct	Cooling &Heating	DC	TMV-V(**) F5/NIDY(E)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									
 Free static pressure duct	Cooling &Heating	DC	TMV-V(**) F2/NIDY(E)									●	●	●	●	●	●	●	●	●	●									
 Wall-mounted (External EXV)	Cooling &Heating	DC	TMV-V(**)G/ NIDY-B(E)		●		●		●		●	●	●		●	●	●	●												
 Wall-mounted (Built-in EXV)	Cooling &Heating	AC	TMV-V(**)G/ NIY-B(E)		●		●		●		●	●	●		●	●														
 Wall-mounted (Built-in EXV)	Cooling &Heating	AC (60Hz)	TMV-V(**)G/ NIY-B(E)		●		●		●		●	●	●	●	●	●														
 High static pressure duct	Cooling &Heating	AC	TMV-V(**) F1/NIY(E)																							●	●	●	●	
 Fresh air duct	Cooling &Heating	AC	TMV-V(**) F1/XFN1Y(E)																		●					●	●	●		
 Ceilling & Floor	Cooling &Heating	AC	TMV-V(**) ZD/NIY(E)									●	●	●	●	●	●	●	●	●	●	●	●	●						
 One-way cassette (Developing)	Cooling &Heating	DC	TMV-V(**) Q1/NIDY(E)		●		●		●		●	●	●	●	●															
 Two-way cassette	Cooling &Heating	AC	TMV-V(**) Q2/NIY€		●		●		●		●	●	●	●	●															

Completed Intelligent Control Solution

IDU Wireless Controller



52E



58E



85T

IDU Wired Controller



86J1



86N3



86B1
Built-in WIFI
(without voice control)



86V1
Built-in WIFI
(with voice control)

WIFI APP Control



WIFI module

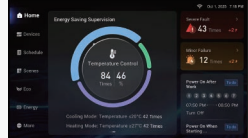


APP

System Centralized Controller



7-inch



New 7-inch
(Developing)



10-inch

System Cloud Control and Management



3 in 1 gateway
(Cloud Function)

+



TCL IOC Platform
(T-building)

System BMS Control



BMS Gateway
Modbus/BACnet



+



BMS Platform



KNX
(Developing)

● ODU Parameters(8-36HP)



8 to 18 HP



20 to 24 HP



26 to 36 HP

HP			8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP	34HP	36HP
Model: TMVC-VED+(***)W/AS(E)			252	280	335	400	450	504	560	615	680	730	785	850	900	950	1010
Power Supply		V~Hz/Ph	380-415V, 50/60Hz, 3Ph														
Cooling	Capacity	kW	25.2	28.0	33.5	40.0	45.0	50.4	56.0	61.5	68.5	73.0	78.5	85.0	90.0	95.2	101.0
	Input	kW	5.37	6.54	8.19	9.90	11.40	13.16	15.80	17.70	20.00	20.20	22.00	25.00	27.50	29.50	32.50
	Current	A	8.56	10.43	13.06	15.79	18.18	20.99	25.20	28.23	31.90	32.22	35.09	39.87	43.86	47.05	51.83
	EER	W/W	4.69	4.28	4.09	4.04	3.95	3.83	3.54	3.47	3.43	3.61	3.57	3.40	3.27	3.23	3.11
Max. Input Consumption		kW	11.30	12.43	13.73	16.50	18.70	21.39	23.70	26.07	29.68	31.49	33.27	33.47	34.59	39.44	41.25
Max. Current		A	20.03	22.03	24.33	28.80	32.80	37.90	42.00	46.20	52.60	55.80	58.95	59.31	61.29	69.90	73.10
Compressor	Quantity	/	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	Type	/	Scroll compressor														
Outdoor Fan Motor	Type	/	DC INVERTER														
	Quantity	/	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
Outdoor Fan Blade	Type	/	Axial														
	Quantity	/	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2
Air volume		m³/h	13000	13500	14000	14500	15000	19000	22000			26000			27000		
Sound Pressure Level		dB(A)	57	58	59	60	61	62	63	63	64	64	64	64	65	66	66
Dimension (WxDxH)	Net	mm	925x845x1780						1340x845x1780				1760x845x1780				
	Packing	mm	1000x925x1940						1415x925x1940				1835x925x1940				
Weight	Net	kg	200			210			275			360			390		
	Gross	kg	210			220			295			385			415		
Refrigerant type / Quantity	Type	/	R410A														
	Factroy Charged Volume	kg	6.5			7.5			9.5			11			15.5		
Refrigerant Piping	Liquid Side	mm	φ9.52	φ9.52	φ12.7	φ12.7	φ12.7	φ15.9	φ15.9	φ15.9	φ15.9	φ19.1	φ19.1	φ19.1	φ19.1	φ19.1	φ19.1
	Gas Side	mm	φ19.1	φ22.2	φ25.4	φ25.4	φ28.6	φ28.6	φ28.6	φ28.6	φ28.6	φ31.8	φ31.8	φ31.8	φ34.9	φ38.1	φ38.1
Ambient Temp (Cooling)		℃	-15-60														



GD TCL INTELLIGENT HEATING & VENTILATING EQUIPMENT CO.,LTD.
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V26.04.09



TMV6+ EcoC cooling only
Series Intelligent VRF

Enhanced Vapor Injection DC Inverter Air Conditioning System





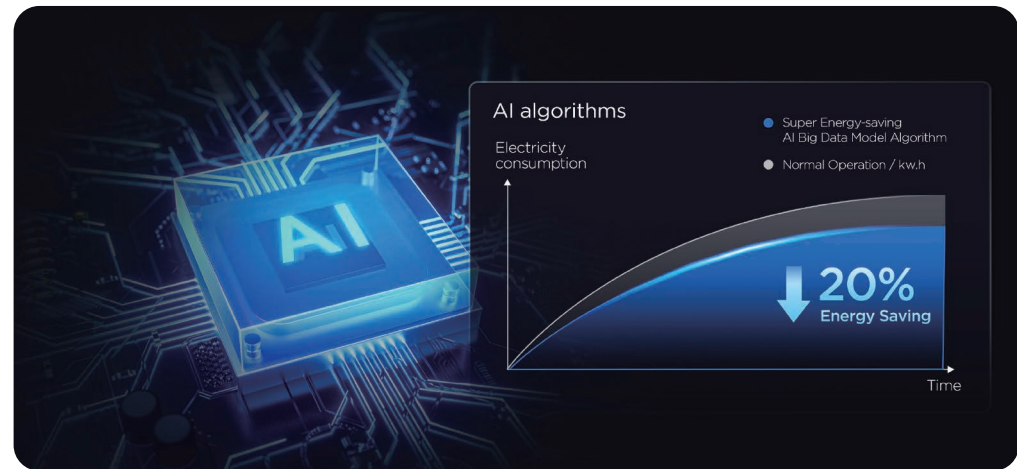
ODU Units

1 unit max.36HP

1 system up to 144HP

AI Algorithms Operator

The built-in AI continuously optimizes temperature and system efficiency. It drives a self-adapting compressor for precise cooling and operates entirely offline, ensuring instant performance and total data privacy without internet.



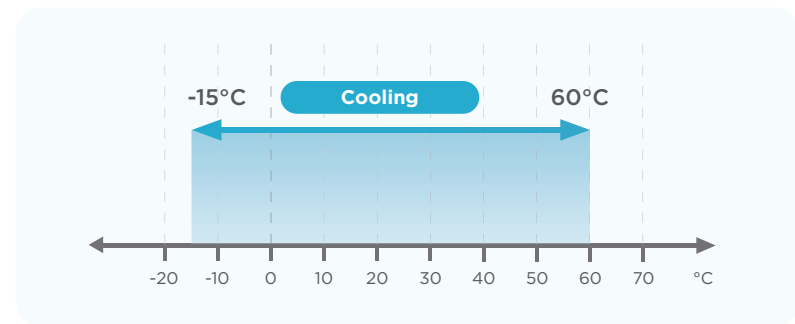
Generator Mode

Using the remote/wired controller to achieve generator mode, 40%-90% 6 level of generator mode to assure unit can run at extreme low power consumption mode.The system will switch to 100% capacity mode automatically when the city power on.



Ambient Temperature Range

With a reliable operating range from -15°C to 60°C, this unit is engineered to perform in harsh conditions and diverse scenarios.



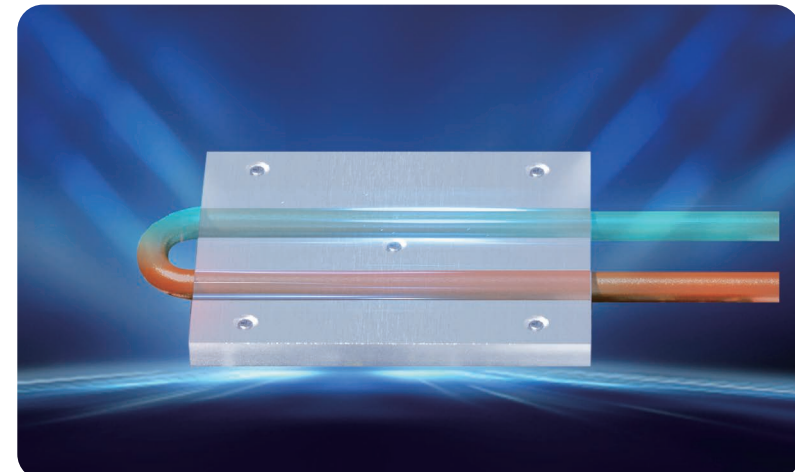
Wide Voltage Range

The unit can operate in the range of voltage 290V-460V (International standard voltage 380V±10%),satisfy all kinds of voltage conditions.



Refrigerant Cooling

The refrigerant cooling technology can cool the PCBs in high ambient temperature condition, which improves the reliability, efficiency and lifespan of the VRF units.

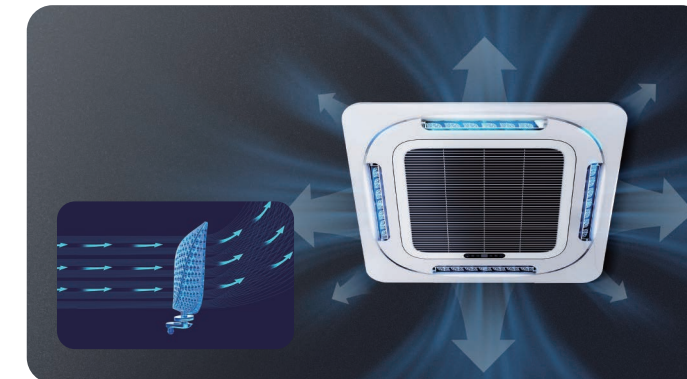


360° Air Outlet Cassette

Soft Wind Panel

The optional Soft Wind Panel creates a 360° airflow for superior comfort.Air is dispersed through 2,565 micro-holes, which break up the direct airflow into a gentle, body-friendly breeze.

*This is optional



360° Airflow

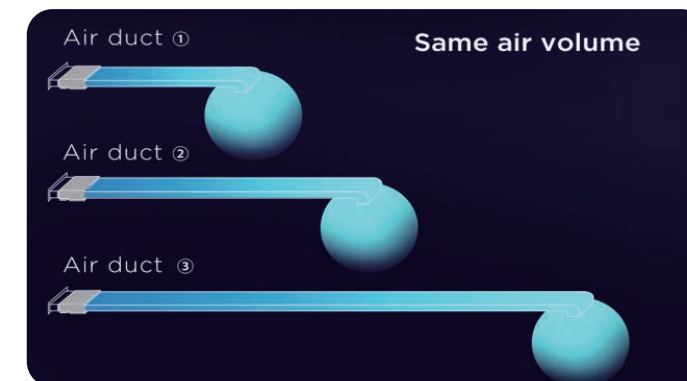
Experience a gentle breeze in every corner. Our system ensures uniform air distribution to eliminate hot and cold spots, maintaining a consistently comfortable temperature throughout your space.



Free ESP Duct Unit

Constant Air Volume

Fan motor automatically adjusts speed according to real-time wind resistance. To provide stable air volume to rooms.



High ESP

An ESP of up to 200 Pa supports longer air ducts and enables adaptation to a wider range of installation scenarios.



Low ESP Slim Duct Unit

Ultra-Thin Body Design

With a minimum height of only 200 mm, the unit saves significant space. Its drain pump can raise condensate up to 1200 mm.



Seven Gear Wind Speed

Precise fan speed control provides a more comfortable experience for wind-sensitive users.



One-way Cassette

Slim Design

130mm Slim Design
Perfect for Various Installation Need:
• 150mm limited ceiling spaces
• Wall space saving
• Integrated home design



Smart Comfort

Dual-side Airflow
120° Wide Airflow
Sky Airflow
10M Long-Distance Airflow



*New one-way cassette is under developing.